# Guidelines for Rehabilitating Cultural Landscapes

# SPATIAL ORGANIZATION AND LAND PATTERNS Identify, Retain, and Preserve Historic Materials and Features

## Recommended

Identifying, retaining and preserving the existing spatial organization and land patterns of the landscape as they have evolved over time. Prior to beginning project work, documenting all features which define those relationships. This includes the size, configuration, proportion and relationship of component landscapes; the relationship of features to component landscapes; and the component landscapes themselves, such as a terrace garden, a farmyard, or forest-to-field patterns.

## Not Recommended

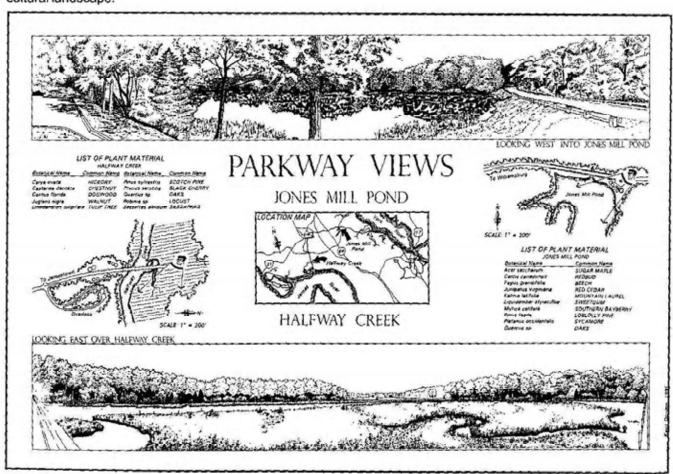
Undertaking project work without understanding the effect on existing spatial organization and land patterns. For example, constructing a structure that creates new spatial divisions or not researching an agricultural property's development history.

#### Protect and Maintain Historic Features and Materials

Protecting and maintaining features that define spatial organization and land patterns by non-destructive methods in daily, seasonal and cyclical tasks. For example, maintaining topography, vegetation, and structures which comprise the overall pattern of the cultural landscape.

Allowing spatial organization and land patterns to be altered through incompatible development or neglect.

Utilizing maintenance methods which destroy or obscure the landscape's spatial organization and land patterns.



Colonial Parkway was first designed in 1930-31 and developed over a period of thirty years. The historic corridor embodies modern parkway design standards with its curvilinear alignment and scenic intent. The approach used in developing the views was to frame them with native vegetation collected and planted on-site, while also maximizing the visual contact with the York and James rivers. Research and analysis findings have verified the high level of integrity of the overall design, without any significant changes to the parkway's engineering. (HABS)





Mount Version's spekial organization and land patterns, both within the historic property and its geographic context, have been preserved through appropriate mainly name. Inacognitive and land conservation strategies. (photos by Jack Boucher for HABS)

## Repair Historic Features and Materials

Repairing materials that define the spatial organization and land patterns by use of non-destructive methods and materials when additional work is required. For example, repairing structures or regenerating vegetation which comprise the individual spaces or overall patterns of the cultural landscape.

Failing to undertake necessary repairs resulting in the loss of spatial organization and land patterns.

Replacing a feature that defines spatial organization and land patterns when repair is possible.

## Replace Deteriorated Historic Materials and Features

Replacing in kind an entire feature that defines spatial organization and land patterns that is too deteriorated to repair.

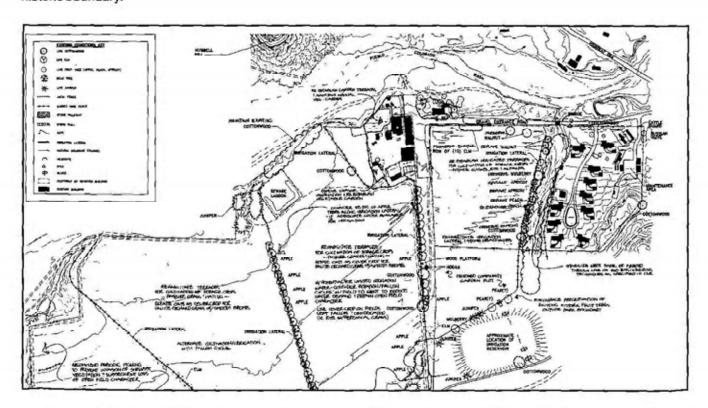
Removing a feature that is beyond repair and not replacing it; or, replacing it with a new feature that does not respect the spatial organization and land patterns.

## Design for the Replacement of Missing Historic Features

Designing and installing new features which respect or acknowledge the historic spatial organization and land patterns. It may be an accurate restoration using historical, pictorial and physical documentation; or be a new design that is compatible with the spatial organization and land patterns. For example, installing a new shrubplanting which defines the edge of a missing historic boundary.

Creating a false historical appearance because the replacement feature is based on insufficient historical, pictorial and physical documentation.

Introducing new features that are incompatible with the spatial organization or land patterns.



At the Hubbell Trading Post National Historic Site, Ganado, Arizona, the spatial organization and land patterns will be reinstated and the agricultural fields returned to active cultivation and forage crops. To re-establish the lost spatial relationships, apple trees along the irrigation canals will be replaced and the terraces they define will be returned to pasture grasses and haying. (Landscape Systems/Peggy Nelson)

## Alterations/Additions for the New Use

Designing new features when required by the new compatible use to assure the preservation of the historic spatial organization and land patterns.

Adding a new feature that detracts from or alters the spatial organization and land patterns. For example, constructing a new farm house wing over a kitchen garden.

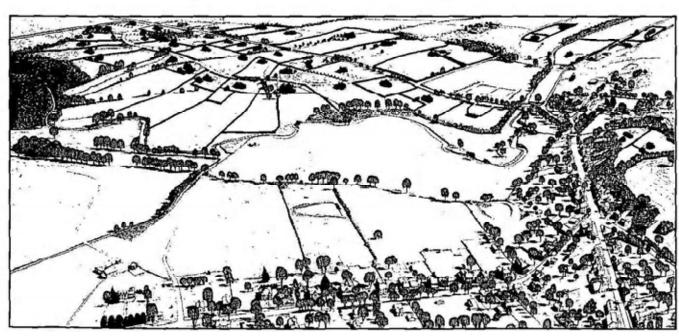
Placing a new feature where it may cause damage to, or be intrusive in spatial organization and land patterns. For example, inserting a new visitors center that blocks or alters a historic view or vista.

Introducing a new feature that is visually incompatible in size, scale, design, materials, color and texture.

Removing non significant features which detract from or have altered the spatial organization and land patterns. Removing historic features which are important in defining spatial organization and land patterns.



The significance of Waterford is conveyed in its history, topography, architecture and integrity. The relationship between people and the land, as reflected in the topography, as well as the pristine character and integrity of the landscape, are of paramount importance when considering alterations or additions to the Village's spatial organization and land patterns. These perspectives illustrate two development plans: one for conventional development [bottom, not recommended], and one for limited development (opposite. recommended). (Waterford Foundation)



# TOPOGRAPHY Identify, Retain, and Preserve Historic Features and Materials

#### Recommended

Identifying, retaining and preserving the existing topography. Documenting topographic variation prior to project work, including shape, slope, elevation, aspect, and contour. For example, preparing a topographic survey.

Evaluating and understanding the evolution of a landscape's topography over time. Using archival resources such as plans and aerial photographs or, in their absence, archeological analysis techniques to understand the historic topography.

## Not Recommended

Undertaking project work that impacts topography without undertaking a topographic survey.

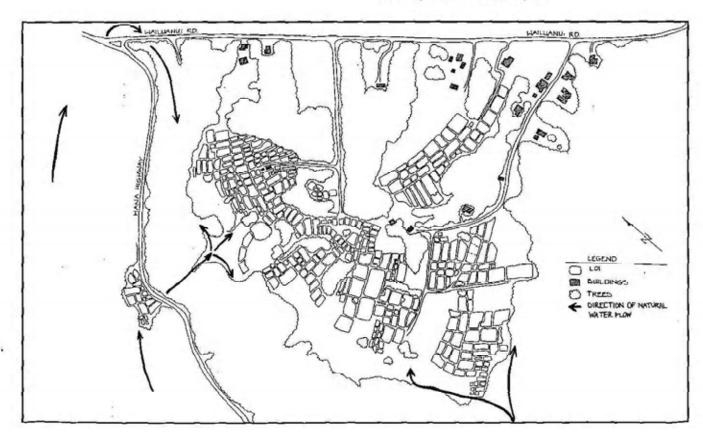
Executing project work without understanding its impact on historic topographic resources, for example, watershed systems.

#### Protect and Maintain Historic Features and Materials

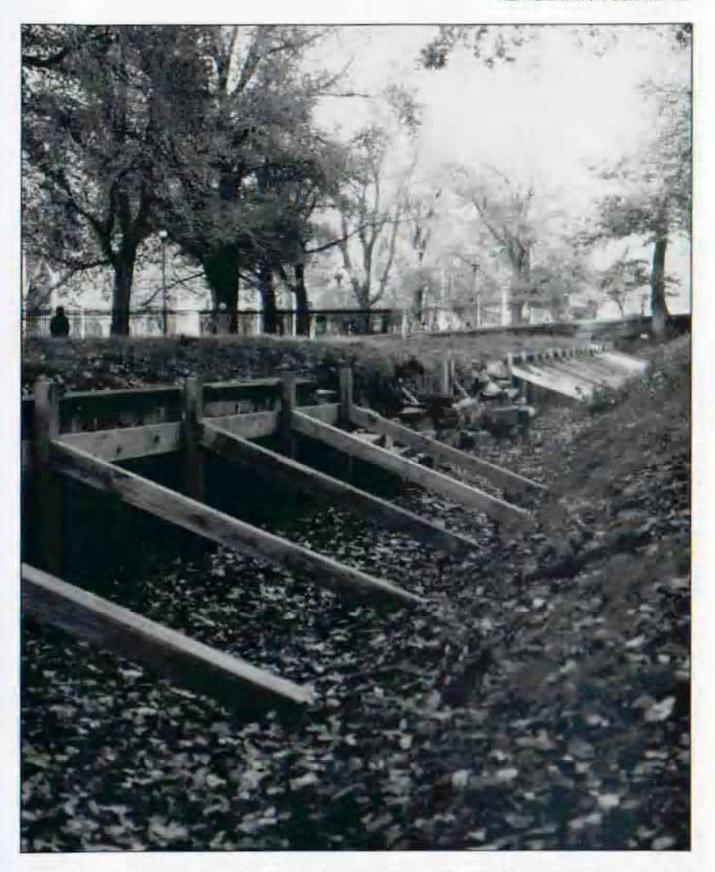
Protecting and maintaining historic topography by use of non-destructive methods and daily, seasonal and cyclical tasks. This may include cleaning drainage systems or mowing vegetative cover.

Failing to undertake preventive maintenance.

Utilizing maintenance methods which destroy or degrade topography, such as using heavily weighted equipment on steep or vulnerable slopes.



The central portion of the Ke'anae peninsula contains the most tightly clustered concentration of taro "lo" in the area. The lo" themselves are surrounded by convex earthen banks. These banks serve as topographic dividers between the fields as well as trails for foot traffic--one person; single file. The wider banks, some of which measure eight to ten feet, provide access for tractors and all-terrain vehicles. This plan documents dirt mounds that have survived in the Wailuanui Lo" Complex. (Group 70)



Located on the southwestern corner of Boston Common, the Central Surying Ground (1754) is the fourth olded burying ground in Boulon. Messachusetts One of at most distinguishing topographic features, a free-standing mound turns—the test of its kind remaining in the city—had portionly collapsed. Prior to its restoration, [see page 105] further deterioration was arrested with a wooden shoring and briscing system, thus preventing its total collapse. (Boston Parks & Recreation, Historia Burying Ground Initiative).

## Repair Historic Features and Materials

Repair declining topographic features. For example, reexcavating a silted swale through appropriate regrading or reestablishing an eroding agricultural terrace. Destroying the shape, slope, elevation or contour of topography when repair is possible.

## Replace Deteriorated Historic Materials and Features

Using existing physical evidence of the form and composition to reproduce a deteriorated topographic feature. If using the same kind of material is not technically, economically, or environmentally feasible, then a compatible substitute material may be considered. For example, re-establishing eroded bunkers or ramparts in a battlefield with a substitute soil mix that supports improved drainage and health and vigor of ground cover plant materials.

Removing a topographic feature that is deteriorated and not replacing it, or replacing it with a new feature that does not convey the same visual appearance. For example, changing stepped terracing to a curved slope.

## Design for the Replacement of Missing Historic Features

Designing and installing new topographic features when the historic feature is completely missing. It may be an accurate restoration using historical, pictorial and physical documentation or a new design that is compatible with the shape, slope, elevation and contour of the historic topography. For example, installing an artificial jetty to replace one lost to beach erosion.

Creating a false historical appearance because the replacement feature is based on insufficient historical, pictorial and physical documentation.

Introducing a new topographic feature that is incompatible in shape, slope, elevation, aspect and contour.

#### Alterations/Additions for the New Use

Designing new topographic features when required by the new use so that they are as unobtrusive as possible and assure the preservation of the historic landscape. For example, designing and installing drainage systems to protect historic topographic features.

Placing a new feature where it may cause damage, or is incompatible with historic topography. For example, failing to provide proper drainage for a new feature which results in the decline or loss of topographic features.

Locating a new feature in such a way that it detracts from or alters the historic topography. For example, obscuring a historic shoreline through the construction of a new breakwall.

Introducing a new feature in an appropriate location, but making it visually incompatible in terms of its size, scale, design, materials, color and texture. For example, installing berms to screen new parking, but using incongruous topographic shape and contour.

# VEGETATION Identify, Retain, and Preserve Historic Features and Materials

## Recommended

Identifying, retaining and preserving the existing historic vegetation prior to project work. For example, woodlands, forests, trees, shrubs, crops, meadows, planting beds, vines and ground covers. Documenting broad cover types, genus, species, caliper, and/or size, as well as color, scale, form and texture.

Evaluating the condition and determining the age of vegetation. For example, tree coring to determine age.

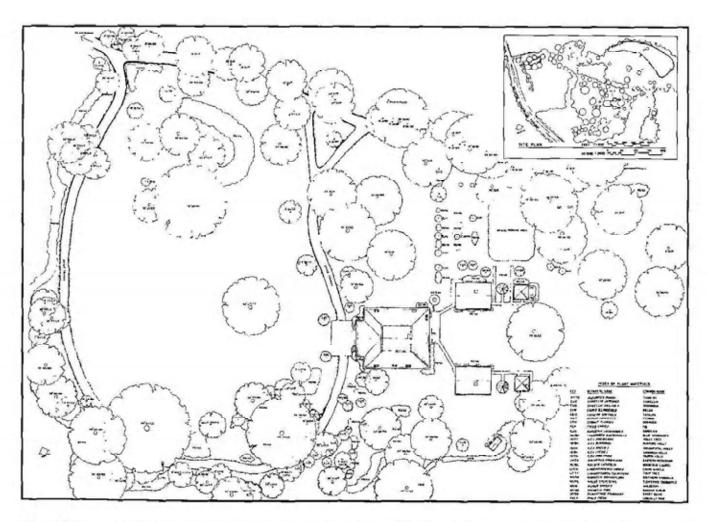
Retaining and perpetuating vegetation through propagation of existing plants. Methods include seed collection and genetic stock cuttings from existing materials to preserve the genetic pool.

## Not Recommended

Undertaking project work that impacts vegetation without executing an existing conditions survey of plant material.

Undertaking project work without understanding the significance of vegetation. For example, removing roadside trees for utility installations, or indiscriminate clearing of a woodland understory.

Failing to propagate vegetation from extant genetic stock, when few or no known sources or replacements are available.



The surviving woody plant materials were all documented for Melrose National Historical Park in Natchez, Mississippi. The plan for the core area of the eighty acre property documents all trees, shrubs and vines, including several sentinel trees. Two examples include the 78" red oak and the 60" live oak, both in the central parkland area. This documentation project provides a sound basis for future treatment and management decisions. (HABS)

#### Protect and Maintain Historic Features and Materials

Protecting and maintaining historic vegetation by use of non-destructive methods and daily, seasonal and cyclical tasks. For example, employing pruning or the careful use of herbicides on historic fruit trees.

Utilizing maintenance practices which respect the habit, form, color, texture, bloom, fruit, fragrance, scale and context of historic vegetation.

Utilizing historic horticultural and agricultural maintenance practices when those techniques are critical to maintaining the historic character of the vegetation. For example, the manual removal of dead flowers to ensure continuous bloom.

Failing to undertake preventive maintenance of vegetation.

Utilizing maintenance practices and techniques which are harmful to vegetation; for example, over- or underingating.

Utilizing maintenance practices and techniques that fail to recognize the uniqueness of individual plant materials. For example, utilizing soil amendments which may after flower color or, poorly-timed pruning and/or application of insecticide which may after fruit production.

Employing contemporary practices when traditional or historic can be used. For example, utilizing nontraditional harvesting practices when traditional practices are still feasible.



impation and other modern sufmanagement, bechniques, have changed the restoric character of the level of the CCC-era headquarters complex at Scotts Bluff National Movement, Gering, Nebreska Jappostel Triess are dying from prewittering and the manicured thisgruss frem is distinctly different in character from its historic appearance (appossible) (NPS staff, 1995 and 1938).







Fower Grove Park in St Louis Missouri it. a National Historic Landmark. The Victorian park famous for its ornernental herbaceous beds, or "bedding-out," (Inp) had all but lost most of thesar areas of sussemil plant display to mown lawn for ease of mantenance. [center] More recently, these beds have been ministaled using historic photographic documentation and written accounts. The results are herbapeous beds that are of a new design that is computable. with the habit, form, color, history, scale, massing and context of the historic vegetation (Itorium) (Tower Grove Park)





## GUIDELINES FOR THE TREATMENT OF CULTURAL LANDSCAPES

## Repair Historic Features and Materials

Rejuvenating historic vegetation by corrective pruning, deep root fertilizing, aerating soil, renewing seasonal plantings and/or grafting onto historic genetic root stock.

Replacing or destroying vegetation when rejuvenation is possible. For example, removing a deformed or damaged plant when corrective pruning may be employed.

## Replace Deteriorated Historic Materials and Features

Using physical evidence of composition, form, and habit to replace a deteriorated, or declining, vegetation feature. If using the same kind of material is not technically, economically, or environmentally feasible, then a compatible substitute material may be considered. For example, replacing a diseased sentinel tree in a meadow with a disease resistant tree of similar type, form, shape and scale.

Removing deteriorated historic vegetation and not replacing it, or replacing it with a new feature that does not convey the same visual appearance. For example, a large mature, declining canopy tree with a dwarf ornamental flowering tree.

## Design for the Replacement of Missing Historic Features

Designing and installing new vegetation features when the historic feature is completely missing. It may be an accurate restoration using historical, pictorial and physical documentation; or be a new design that is compatible with the habit, form, color, texture, bloom, fruit, fragrance, scale and context of the historic vegetation. For example, replacing a lost vineyard with more hardy stock similar to the historic.

Creating a false historical appearance because the replaced feature is based on insufficient historical, pictorial and physical documentation.

Introducing new replacement vegetation that is incompatible with the historic character of the landscape.

## Alterations/Additions for the New Use

Designing a compatible new vegetation feature when required by the new use to assure the preservation of the historic character of the landscape. For example, designing and installing a hedge that is compatible with the historic character of the landscape to screen new construction.

Placing a new feature where it may cause damage or is incompatible with the character of the historic vegetation. For example, constructing a new building that adversely affects the root systems of historic vegetation.

Locating any new vegetation feature in such a way that it detracts from or alters the historic vegetation. For example, introducing exotic species in a landscape that was historically comprised of indigenous plants.

Introducing a new vegetation feature in an appropriate location, which is visually incompatible in terms of its habit, form, color, texture, bloom, fruit, fragrance, scale or context





The Star-Fort at the Ninety-Six Buttlefeldt, Ninety-Six Scott Carolina was enough from receiving operations. I top) To receive the attention rather grasses were installed on the historic Revolutionary War Star Fort. [bottom] The intense of the fact has been moved short to accommodate wants access, but fall native grasses are kept songer on the warthworks to discourage violities from weeking on them and to ask at their intense. The difference in neight of the new grasses also help to visually define the eachworks themselves. (coursely SPS)

# CIRCULATION Identify, Retain, and Preserve Historic Features and Materials

## Recommended

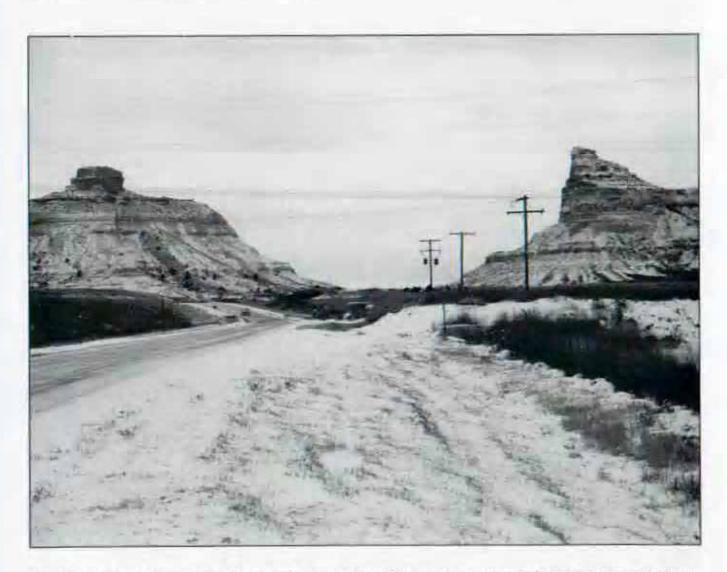
Identifying, retaining, and preserving the existing circulation systems prior to project work. All circulation features should be documented, from small paths and walks to larger transportation corridors such as parkways, highways, railroads and canals. Documenting alignment, surface treatment, edge, grade, materials and infrastructure.

Evaluating the existing condition and determining the age of circulation systems. For example, using aerial photographs to understand a transportation comdor's change from a two-lane route to a six-lane highway.

## Not Recommended

Executing project work that impacts circulation systems without undertaking an existing conditions survey.

Undertaking work without understanding the significance of circulation systems. For example, changing road alignments and widths without a thorough evaluation of the historic road.



This modern highway, which approximates the Oragon Trail approach to Mitchell Plass, was occurrented as part of a recent inventory project. Although the buffic noise is intrinsive, the highway allow instant to experience movement through the landscape, an important component of the trail. (courtesy NPS)

#### Protect and Maintain Historic Features and Materials

Protecting and maintaining circulation systems by use of non-destructive methods in daily, seasonal and cyclical tasks. This may include hand-raking, top-dressing, or rolling surface materials.

Utilizing maintenance practices which respect infrastructure. For example, cleaning out debris from drainage systems. Failing to undertake preventive maintenance of circulation features and materials. For example, using a snow plow across a coarse textured pavement.

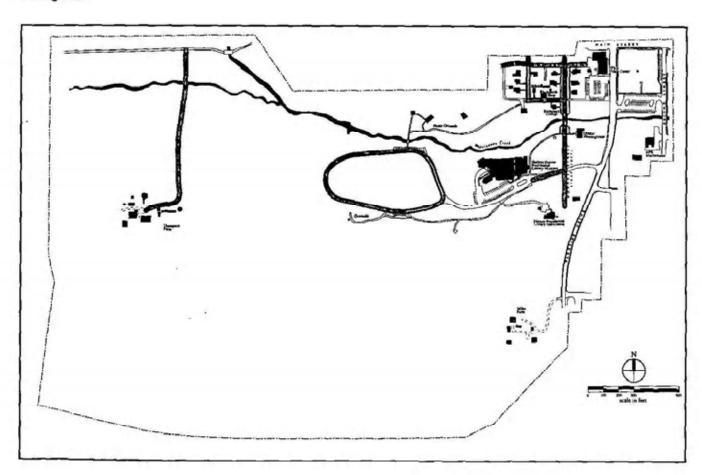
Using materials such as salts and chemicals, that can hasten the deterioration of surface treatments.

Allowing infrastructure to become dysfunctional. For example, permitting a failed drainage system to contribute to the degradation and loss of associated curbs or erosion of road shoulders.

## Repair Historic Features and Materials

Repairing surface treatment, materials and edges. For example, by applying a traditional material to a stabilized subsurface base or patching a canal corridor retaining wall.

Replacing or destroying circulation features and materials when repair is possible. For example, not salvaging and reusing historic stone walk material.



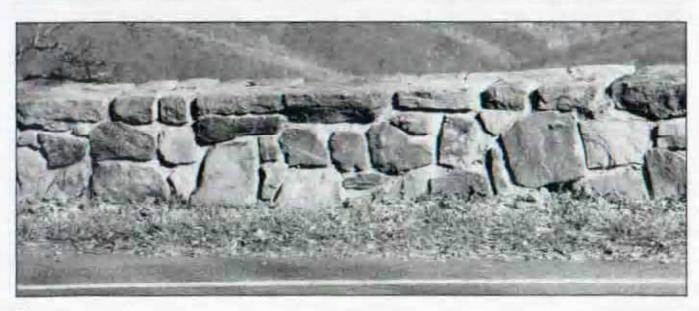
At the Herbert Hoover National Historic Site in West Branch, lowa, the integrity analysis for the landscape's circulation system revealed that a number of streets that existed historically have been substantially altered or are no longer extant. For example, Downey Street (the shaded area running north-south in the center of the historic core) formerly served as the entrance road into West Branch from the South. The road was re-routed and replaced with Parkside Drive (the larger road to its east). Today, the road trace of Downey Street still connects a number of nineteenth-century residences along its right-of-way. (Land and Community Associates)

## GUIDELINES FOR THE TREATMENT OF CULTURAL LANDSCAPES



A 75-mail portion of Skyline Drive at Sharamooch National Park overlocking the Blue Ricige Mountains of Virginia required the rehabilitation of a 22"-high, dry-bald state east (operate). The reversal real ball to a height of 27" whereas rode normally requires 5 height of 36". The wall was constructed of onicest concrete olad with split states and mortar joints were arranged in a random pattern (bottom), locurtesy NPS and Paul Disnel Manoth.





## Replace Deteriorated Historic Materials and Features

Using physical evidence of form, detailing and alignment to reproduce a deteriorated circulation feature. If using the same kind of material is not technically, economically or environmentally feasible, then a compatible substitute material may be considered. For example, replacing in kind decayed timber edging along a historic trail route.

Removing a circulation feature that is deteriorated and not replacing it, or replacing it with a new feature that does not convey the same visual appearance. For example, replacing a set of stairs with a wall or terrace.

## Design for the Replacement of Missing Historic Features

Designing and installing new circulation features when the historic feature is completely missing. It may be an accurate restoration using historical, pictorial and physical documentation, or be a new design that is compatible with the historic character of the landscape. For example, reinstating a lost park entrance at a historic access point. Creating a false historical appearance because the replaced feature is based on insufficient historical, pictorial and physical documentation.

Introducing a new circulation feature that is incompatible with the historic character of the landscape. For example, using a standardized concrete berrier along a historic parkway.



## Alterations/Additions for the New Use

Designing and installing compatible new circulation features when required by the new use to assure the preservation of historic character of the landscape. For example, controlling and limiting new curb cuts, driveways, and intersections along a historic road. Placing a new feature where it may cause damage, or is incompatible with the historic circulation. For example, adding new driveways, intersections, and "neck outs" along a historic road.

Locating any new circulation feature in such a way that it detracts from or alters the historic circulation pattern. For example, installing a new bike path when an existing historic path can accommodate the new use.

Introducing a new circulation feature which is in an appropriate location, but making it visually incompatible in terms of its alignment, surface treatment, width, edge treatment, grade, materials or infrastructure. For example, installing a new parking lot in a non-significant location, but utilizing paving materials and patterns which are incongruous with the landscape's historic character.



To provide access to the historic earthworks at the Stines River National Buttlefeld in Mudinestion: Technique, on interpretive boardwells was installed forecasting page and above) to allow visitors access to the resources while protecting the earthworks themselves. (courtesy NPS)

# WATER FEATURES Identify, Retain, and Preserve Historic Features and Materials

## Recommended

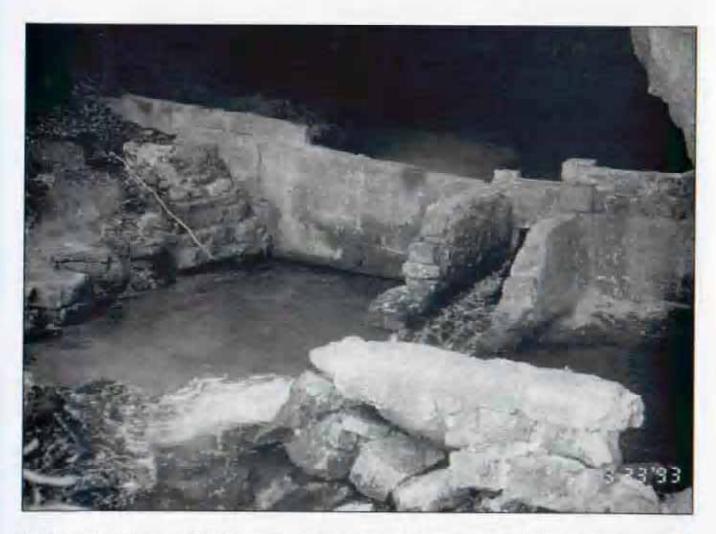
Identifying, retaining and preserving existing water features and water sources such as retention pends, pools, and fountains prior to beginning project work. Documenting the shape, edge and bottom condition/material, water level, sound and reflective qualities; and associated plant and animal life, and water quality.

Evaluating the condition, and, where applicable, the evolution of water features over time. For example, assessing water quality and/or utilizing archeological techniques to determine the changing path of a watercourse.

## Not Recummended

Executing project work that impacts water features, and associated hydrology, without undertaking an existing conditions survey. For example, filling in a pond that was historically used for farm or recreation purposes.

Executing project work without understanding its impact on water features. For example, placing a section of stream in a culvert or concrete channel.



As part of a cultural fanctional street environments of a sewintil dam were inventioned at the Coars Removal Sciency Revenues and Part Busin. Mestouri. These surviving heatures suggest the forces land case of the region. (coursely NPS)

## GUIDELINES FOR THE TREATMENT OF CULTURAL LANDSCAPES





Process rehabilitation project work, then hive-earn wealing poor in Martin Luther King Park in Buffalo, New York, was evaluated to understand as higher design and use. It was determinent that withough the pool and pool/come were in disrepair. They possessed a high invested integral, (LANDSCAPES)

## Protect and Maintain Historic Features and Materials

Protecting and maintaining water features by use of nondestructive methods in daily, seasonal and cyclical tasks. For example, cleaning leaf litter or mineral deposits from drainage inlets or outlets.

Maintaining a water feature's mechanical, plumbing and electrical systems to insure appropriate depth of water or direction of flow. For example, maintaining the timing and sequencing mechanisms for irrigation systems. Falling to undertake preventive maintenance of water features and materials.

Utilizing maintenance methods which destroy or degrade water features, for example, the use of harsh chemical additives for maintaining water quality.

Allowing mechanical systems to fall into a state of disrepair, resulting in changes to the water feature. For example, failing to maintain a pool's aeration system thus leading to algae growth.

## Repair Historic Features and Materials

Repairing water features by reinforcing materials or augmenting mechanical systems. For example, patching a crack in an pond liner or repairing a failed pump mechanism.

Replacing or removing features or systems when repair is possible. For example, abandoning a silted-in retention pond.



Jamusca Pond has an ongoing erosion proteins, executated by Associated action. To stabilize the shoreline, this stone no-rup was insideled after the original original implemented by the Official first. (Pressley Associated and Boston Parks & Recreation)

## Replace Deteriorated Historic Materials and Features

Using existing physical evidence of form, depth and detailing to reproduce a deteriorated water feature. If using the same kind of material is not technically, economically, or environmentally feasible, then a compatible substitute material may be considered. For example, replacing a lead pond liner with one made of plastic

Removing a water feature that is unrepairable and not replacing it, or replacing it with a new feature that does not convey the same visual appearance. For example, replacing a single onlice nozzle with a spray nozzle, thus changing the fountain's historic character from a singular stem of water to a mist-like stream.

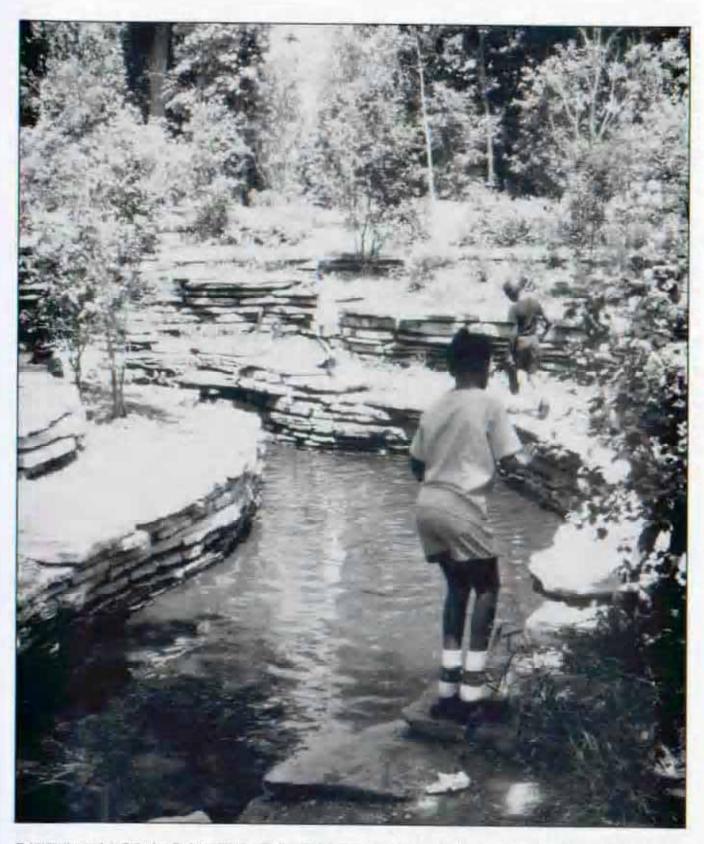
## Design for the Replacement of Missing Historic Features

Designing and installing a new water feature when the historic feature is completely missing. It may be an accurate restoration using historical, pictorial and physical documentation; or be a new design that is compatible with the historic character of the landscape. For example, replacing a lost irrigation feature using materials that convey the same visual appearance.

Creating a false historical appearance because the replaced feature is based on insufficient historical, pictorial and physical documentation.

Introducing a new design that is incompatible with the historic character of the landscape. For example, replacing a natural pond with a manufactured pool.





Rehabilitation work in Columbus Plark included the South waterfall, cascades, moky brook and associated landscape in Jents awaren's most extent and authenticated park in Gricago limbs. Recognizing that park visitors would wint to gain access to the eleter's edge, plant materials were installed with an edditional and back and additional stones were provided to accommission safe passage in all to insure the housth and agon of new plantings. This work was stone while all protecting and maintaining character defining features, materials and finances. [Chicago Perk Discout Annivers, cs. 1936 and author, 1995)

## GUIDELINES FOR THE TREATMENT OF CULTURAL LANDSCAPES

## Alterations/Additions for the New Use

Designing and installing a compatible new water feature when required by the new use to assure the preservation of historic character of the landscape. For example, siting a new retention basin in a secondary, or non-significant space in the cultural landscape.

Placing a new water feature where it may cause damage, or is incompatible with the historic character, such as adding a water slide.

Locating any new water feature in such a way that it detracts from or elters the historic character of the landscape. For example, installing a "period" fountain where one never existed.

introducing a new water feature which is in an appropriate location, but is visually incompatible in terms of its shape, edge, and bottom condition/material, or water level, movement, sound, and reflective quality. For example, introducing a wading pool in a non-significant space, but utilizing non traditional materials and colors.







The Polly Post in Downing Park in Newburgh, New York, had bed its historic shape over time 5vough venous reconfigurations. (for right, The point also suffered from declining water quality and situation. As part of a rehabilitation project, the easter feature was mountingured to better reflect its historic form and alignment (top left) on 1905. Modern intrusions at the water's edge were also removed at this line. (bestern) and the point's edge was stabilized to accommodate contemporary use. (LANDSCAPES and Downing Park Papering Committee)

# STRUCTURES, FURNISHINGS AND OBJECTS Identify, Retain, and Preserve Historic Features and Materials

## Recommended

Identifying, retaining and preserving existing buildings, structures, furnishings and objects prior to beginning project work. For example, gazebos and bridges, playground equipment and drinking fountains, benches and lights, and statuary and troughs. Documenting the relationship of these features to each other, their surrounds, and their material compositions.

Evaluating the condition and determining the age of structures, furnishings and objects. For example, utilizing Historic Structure Inventories and historic aerial photographs to understand the relationship of barns, windmits, silos and water troughs in a ranch compound or the placement of light standards and benches along park paths.

Retaining the historic relationships between the landscape and its buildings, structures, furnishings and objects.

## Not Recommended

Undertaking project work that impacts buildings, structures, furnishings, and objects without executing an "existing conditions" survey.

Undertaking work without understanding the significance of structures, furnishings and objects. For example, removing an arbor that defines the axis of a garden or fonce posts that defineate the limits of a vineyard.

Removing or relocating structures, furnishings and objects, thus destroying or diminishing the historic relationship between the landscape and these features. For example, relocating a bridge from its historic crossing point or relocating a historic flagpole to a new location.





As part of a preservation plan for Magnolia Cemetery. Charisative South Caroma, all son ferious and burier markets were evaluated for their existing physical condition. (author, 1994)

## Protect and Maintain Historic Features and Materials

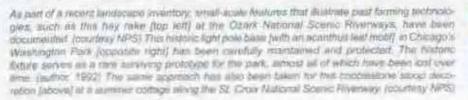
Protecting and maintaining buildings, structures, furnishings and objects by use of non-destructive methods and daily, cyclical and seasonal tasks. This may include rust or limited paint removal, and reapplication of protective coating systems. For example, painting metal wrought iron fences or repointing masonry to match original mortar material, color and profiles.

Failing to undertake preventive maintenance for structures, furnishings and objects, resulting in their damage or loss. For example, failing to stop water infiltration at roofs and foundations.

Utilizing maintenance practices and materials that are harsh, abrasive, or unproven. For example, using only aggressive and potentially damaging cleaning methods such as grit blasting on wood, brick, or soft stone or using harsh chemicals on masonry or metals.









## Repair Historic Features and Materials

Repairing features and materials of buildings, structures, furnishings or objects by reinforcing historic materials. For example, returning a children's swing to good working order, or reshaping a section of a deformed monkey bar.

Replacing or destroying a feature of structures, furnishings or objects when repair is possible. For example, replacing a pavilion's tile roof with physically or visually incompatible roofing; or, removing a non-working historic light fixture, rather than rewiring it.

## Replace Deteriorated Historic Materials and Features

Using existing physical evidence of form, material and detailing to reproduce a deteriorated structure, furnishing or object. If using the same kind of material is not technically, economically, or environmentally feasible, then a compatible substitute material may be considered. For example, replacing a cast stone bench with a new casting from the original mould.

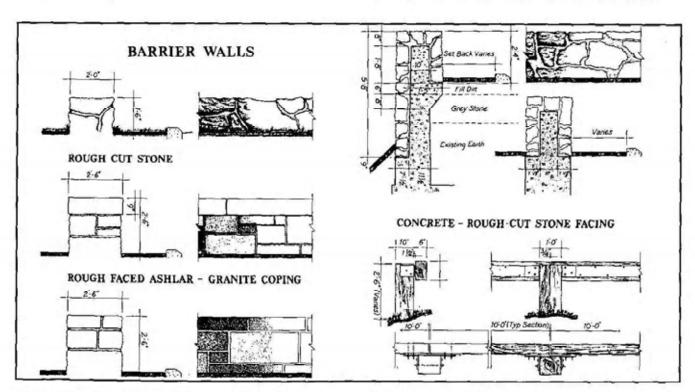
Removing a structure, furnishing, or object that is deteriorated and not replacing it, or replacing it with a new feature that does not convey the same visual appearance. For example, removing a wooden rustic footbridge and replacing it with a concrete bridge.

## Design for the Replacement of Missing Historic Features

Designing and installing new structures, furnishings and objects when the historic features are missing. It may be an accurate restoration using historical, pictorial and physical documentation; or be a new design that is compatible with the historic character of the landscape. For example, replacing a picnic shelter with one of a new compatible design.

Creating a false historical appearance because the replaced feature is based on insufficient historical, pictorial and physical documentation.

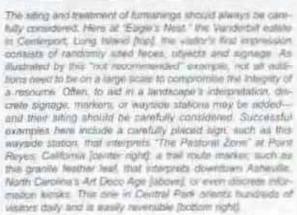
Introducing a new design that is incompatible with the historic character of the landscape. For example, replacing a lost wooden fence with chain link fence.



All parkway furnishings along the George Washington Parkway were inventoried prior to rehabilitation work. The parkway, which spans over forty years of construction between 1929 and 1970, includes a variety of construction techniques for its barrier walls. These construction details are now being utilized to aid in current repair work. (HABS)

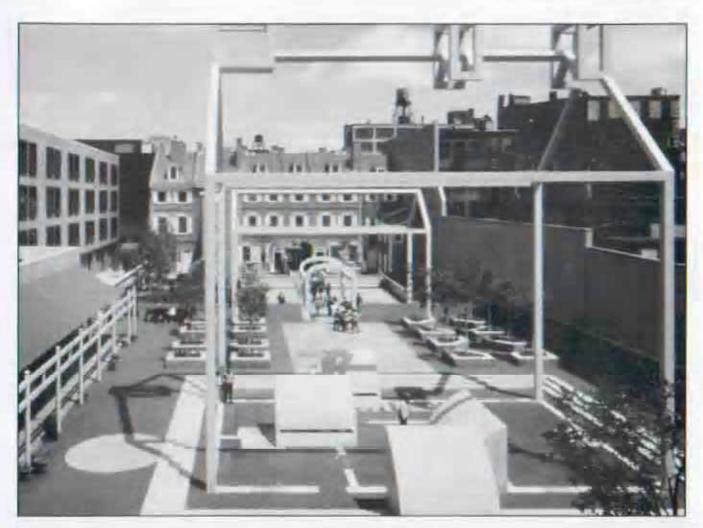














For some landscapes that have little remaining integrity, yet significant historical associations, a new design, complete with three-dimensional autorprotive tools may highlight a landscape's history to a visiting public. Two representative examples include Franklin Court and Welcome Park in Philadelphia, Pennsylvania. These solutions include the "ghosting" of historic structures based on archeological investigations, on three-dimensional objects, and a variety of signage.

#### Alterations/Additions for the New Use

Designing and installing a new structure, furnishing or object when required by the new use, which is compatible with the preservation of the historic character of the landscape. For example, constructing a new farm outbuilding utilizing traditional building materials or installing appropriately scaled and detailed signage.

Placing a new structure, furnishing, or object where it may cause damage, or is incompatible with the historic character of the landscape. For example, constructing a new maintenance facility in a primary space.

Locating any new structure, furnishing or object in such a way that it detracts from or alters the historic character of the landscape. For example, installing a "period" gazebo that was never present in the cultural landscape.

Introducing a new structure, furnishing or object in an appropriate location, but making it visually incompatible in mass, scale, form, features, materials, texture or color. For example, constructing a visitors' center that is incompatible with the historic character of the cultural landscape.







A section of the well surrounding the Donthester North Burying Ground in Massachusetts was in a state of advanced deterioration, jop). Rather than reconstruct the failing wall along the main estimate area, only its place were replaced. (bottom will) The area of wall between these piece was replaced with an earl fence. (bottom right). This approach was assected to express the pieces/set safety and security of the burief ground, thus allowing for visual access into the burief ground, where it was previously enclosed, (author, 1993 and Boston Parks).





As part of a comprehensive retrabilitation project for Prospect Park's Long Meadow in Brooklyn. New York, a non-instance sell field was relocated to minimize its impact on the great greansward. Here, the backetop and associated fences are realigned along a woodland edge. The new fencing is limited as acops, and painted black to recede into the viewshed. (Prospect Park Alliande)

Although the work in the following sections is quite often an important aspect of rehabilitation projects, its is usually not part of the overall process of rehabilitating character-defining features (maintenance, repair and limited replacement); rather, such work is assessed for its potential negative impact on the landscape's historic character. For this reason, particular care must be taken not to obscure, alter, or damage character-defining features.

## ACCESSIBILITY CONSIDERATIONS

Identifying the cultural landscape's character-defining features, materials and finishes so that accessibility code-required work will not result in their damage or loss.

Complying with barrier-free access requirements, in such a way that character-defining features, materials and finishes are preserved. For example, widening existing stone walks by adding new stone adjacent to it to achieve

the desired width.

Working with local accessibility and preservation specialists to determine the most appropriate solution to access problems which will have the least impact on character-defining features.

Providing barrier-free access that promotes independence for the disabled person to the highest degree practicable, while preserving character-defining landscape features, materials and finishes. For example, incorporating wider sidewalks only at intersections where ramps are being installed, leaving the main runs of histonic sidewalks in place. Undertaking code-required alterations before identifying those features, materials and finishes which are character-defining and must therefore be preserved.

Damaging or destroying character-defining features in attempting to comply with accessibility requirements. For example, paving over gravel walks with blacktop.

Altering, character-defining features, materials and finishes without consulting with local experts.

Making access modifications that do not provide a reasonable balance between independent, safe access and preservation of character-defining landscape features, materials and finishes. For example, replacing three foot wide stone, brick, or historic concrete sidewalks with new wider concrete sidewalks.



This accessionity solution for Derryer. Colorado's Civic Center, retains character-defining features and visual relationships. The new remois not visible from the place's east-west vista and, thus, respects as symmetrical design, (author, 1993).

Finding solutions to meet accessibility requirements that minimize the impact on the cultural landscape, for example, retaining the original character-defining entrance steps and placing the access ramp at a side or secondary entrance.

Making modifications for accessibility without considering the impact on the cultural landscape. For example, introducing a new access element (ramp or lift) that destroys the symmetry of a foundation planting along a building's main facade.

## **HEALTH AND SAFETY CONSIDERATIONS**

Identifying the cultural landscape's character-defining features, materials and finishes so that code-related work will not result in their damage or loss.

Complying with health and safety code requirements in such a manner that character-defining features, materials and finishes are preserved. For example, recognizing standards for the application of herbicides.

Removing toxic materials only after thorough testing has been conducted and only after less invasive abatement methods have been shown to be inadequate.

Providing workers with appropriate personal protective equipment for hazards found in the worksite.

Working with local code officials to investigate systems, methods, or devices of equivalent or superior effectiveness and safety to those prescribed by code so that unnecessary alterations can be avoided.

Upgrading character-defining features to meet health and safety codes in a manner that assures their preservation. For example, upgrading a historic stairway without destroying its character-defining handrails and balustrades.

Installing safety-related systems that result in the retention of character-defining features, materials, and finishes; for example, fire-suppression systems or seismic retrofits.

Applying the necessary materials to add protection to character-defining features, materials and finishes. For example, applying fire retardant, intumescent paint coatings to a deck to add thermal protection to its steel.

Adding new features to meet health and safety codes in a manner that preserves adjacent character-defining features, materials and finishes. For example, providing a new fire access route along a derelict historic corridor.

Undertaking code-required alterations before identifying those features, materials and finishes which are character-defining and must therefore be preserved.

Altering, damaging or destroying character-defining features, materials and finishes while making modifications to a cultural landscape to comply with safety codes.

Destroying a cultural landscape's character-defining features, materials and finishes without careful testing and without considering less invasive abatement methods.

Removing unhealthful materials without regard to personal and environmental safety.

Making changes to cultural landscapes without first exploring equivalent health and safety systems, methods, or devices that may be less damaging to characterdefining features, materials and finishes.

Damaging or obscuring character-defining features, materials and finishes or adjacent areas in the process of doing work to meet code requirements.

Covering character-defining features with fire resistant sheathing which results in altering their visual appearance.

Using materials intended to provide additional protection, such as fire-retardant coatings, if they damage or obscure character-defining features, materials and finishes.

Radically changing, damaging or destroying characterdefining features, materials and finishes when adding new code-required features.

## **ENVIRONMENTAL CONSIDERATIONS**

Identifying the cultural landscape's character-defining features, materials and finishes so that environmental protection-required work will not result in their damage or loss.

Complying with environmental protection regulations in such a manner that character-defining features, materials and finishes are preserved. For example, protecting historic vegetation in which rare and endangered species nest.

Working with environmental protection officials to investigate systems, methods, devices or technologies of equivalent or superior effectiveness to those prescribed by regulation so that unnecessary alterations can be avoided.

Reclaiming or re-establishing natural resources in a manner that promotes the highest degree of environmental protection, while preserving significant historic features, materials and finishes. For example, reclaiming a wetland to comply with applicable environmental regulations, while re-establishing the feature as it appeared historically.

Undertaking environmental protection-required work before identifying those features, materials and finishes which are character-defining and must therefore be preserved.

Altering, damaging, or destroying character-defining features, materials and finishes while making modifications to a cultural landscape to comply with environmental protection regulations.

Making changes to cultural landscapes without first exploring equivalent environmental protection systems, methods, devices or technologies that may be less damaging to historic features, materials and finishes.

Making environmental protection modifications that do not provide a reasonable balance between improved environmental conditions and the preservation of historic features, materials and finishes.

## **ENERGY EFFICIENCY**

Retaining and maintaining those energy efficient features or parts of features of the landscape. For example, maintaining vegetation which performs passive solar energy functions.

Improving energy efficiency of existing features through non-destructive means. For example, utilizing a recirculating system in a fountain rather than uncontrolled discharge to a storm system. Removing or altering those features or parts of features which play an energy conserving role. For example, removing a historic windbreak.

Replacing energy inefficient features rather than improving their energy conservation potential. For example, replacing an entire historic light standard rather than retrofitting the fixture to be more efficient.